

Title (en)

Uplink pilot multiplexing in SU-MIMO and SDMA for SC-FDMA systems

Title (de)

Aufwärts-Pilotmultiplexing in SU-MIMO und SDMA für SC-FDMA-Systeme

Title (fr)

Multiplexage pilote en liaison montante dans SU-MIMO et SDMA, pour des systèmes SC-FDMA

Publication

**EP 2084877 B1 20110420 (EN)**

Application

**EP 07843900 A 20071005**

Priority

- US 2007080560 W 20071005
- US 85094206 P 20061010

Abstract (en)

[origin: WO2008045781A1] Systems and methodologies are described that facilitate adaptive uplink pilot multiplexing schemes. In various embodiments, frequency position and pilot channel bandwidth can be adaptively varied in a block over time based on the uplink channel data, such as the number of streams to be multiplexed. Thus, the provided adaptive uplink pilot multiplexing schemes provide flexible uplink pilot allocation schemes while maintaining single carrier waveform for improved transmit power efficiency and orthogonality of pilots within blocks for improve channel estimation and suppression of interference.

IPC 8 full level

**H04L 27/26** (2006.01)

CPC (source: EP KR US)

**H04L 5/0023** (2013.01 - KR); **H04L 5/0048** (2013.01 - EP KR US); **H04L 5/0023** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2008045781 A1 20080417**; AT E506794 T1 20110515; BR PI0717830 A2 20180918; CA 2663258 A1 20080417; CN 101523840 A 20090902; CN 101523840 B 20131002; DE 602007014091 D1 20110601; EP 2084877 A1 20090805; EP 2084877 B1 20110420; ES 2365436 T3 201111005; JP 2010506543 A 20100225; JP 2013013101 A 20130117; JP 5512757 B2 20140604; KR 101122402 B1 20120515; KR 20090068281 A 20090625; PL 2084877 T3 20110930; RU 2009117660 A 20101120; RU 2419233 C2 20110520; TW 200835251 A 20080816; US 2009316675 A1 20091224; US 8300533 B2 20121030

DOCDB simple family (application)

**US 2007080560 W 20071005**; AT 07843900 T 20071005; BR PI0717830 A 20071005; CA 2663258 A 20071005; CN 200780037901 A 20071005; DE 602007014091 T 20071005; EP 07843900 A 20071005; ES 07843900 T 20071005; JP 2009532510 A 20071005; JP 2012173139 A 20120803; KR 20097009645 A 20071005; PL 07843900 T 20071005; RU 2009117660 A 20071005; TW 96137884 A 20071009; US 44058607 A 20071005